

# Advanced Trigonometry

## Sine Rule

**Angles:**

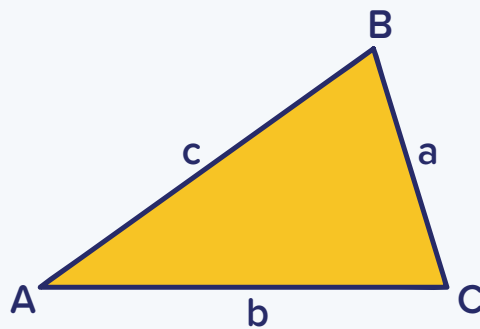
$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

**Sides:**

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

## Area of a Triangle

$$\text{Area} = \frac{1}{2} ab \sin C$$



## Cosine Rule

**Angles:**

$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

**Sides:**

$$a^2 = b^2 + c^2 - 2bc \cos A$$

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